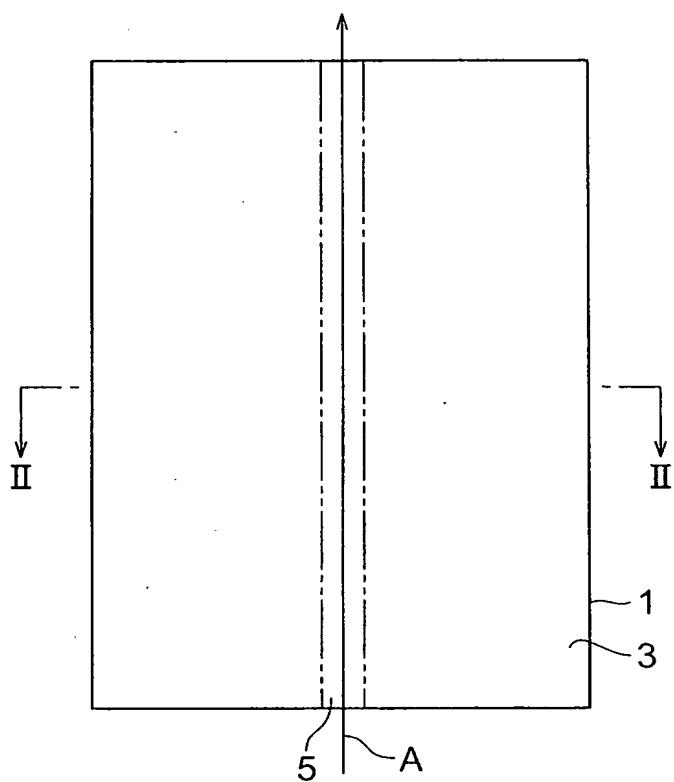


Fig.1



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Fig.2

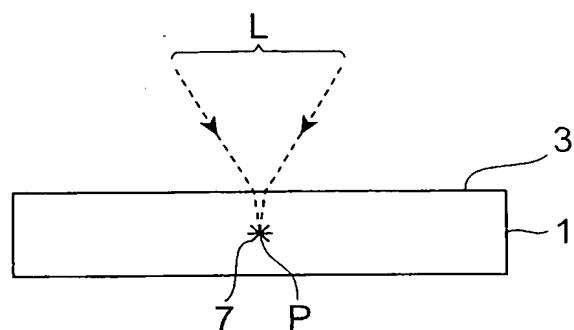


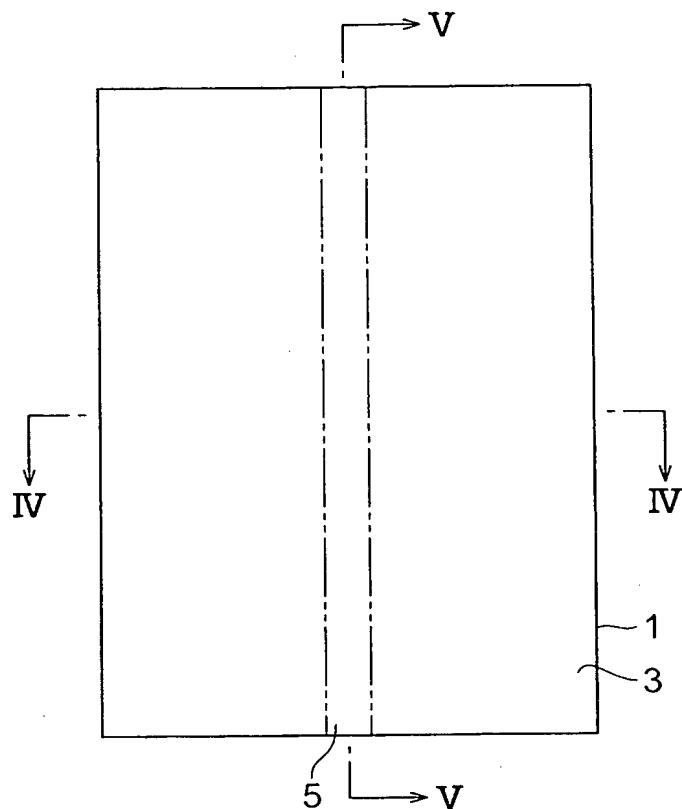
Fig.3

Fig.4

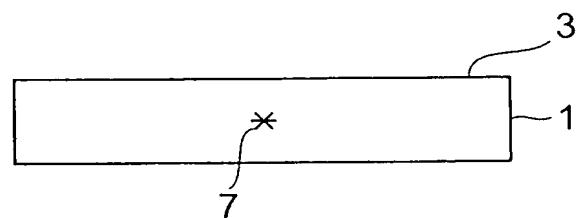


Fig.5

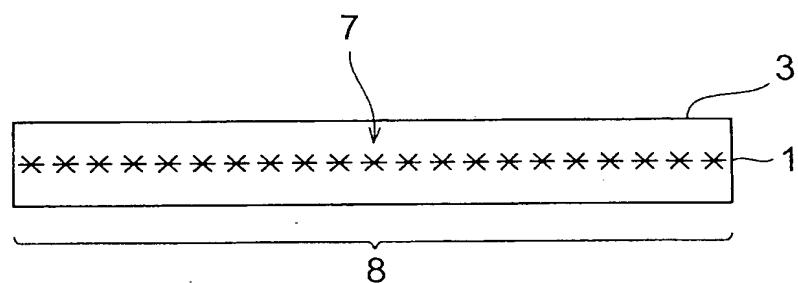


Fig.6

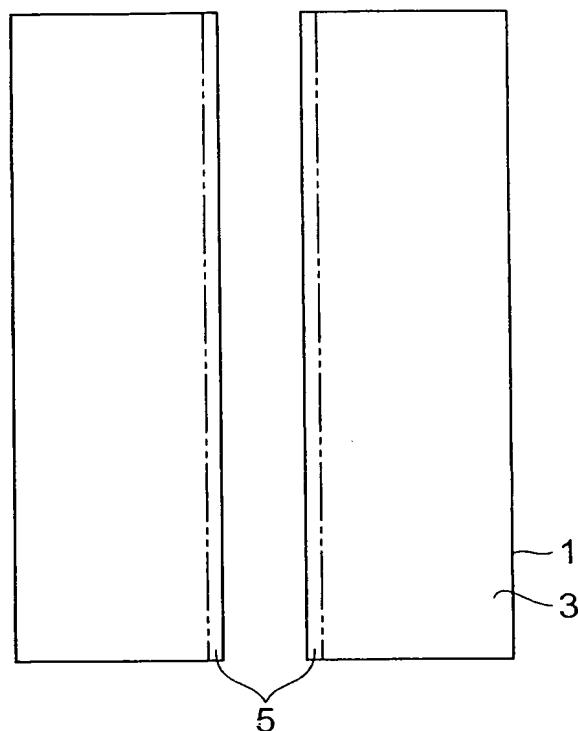


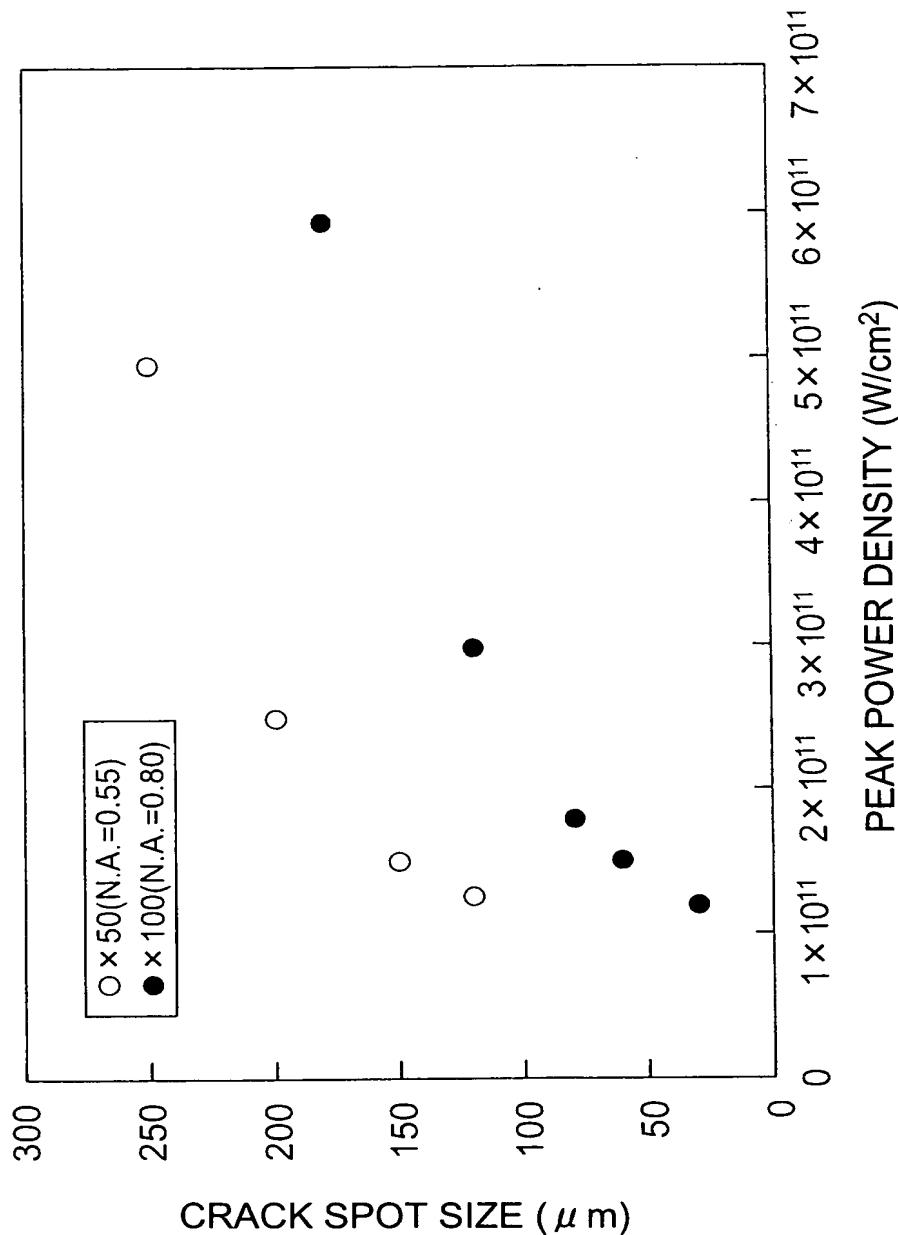
Fig.7

Fig.8

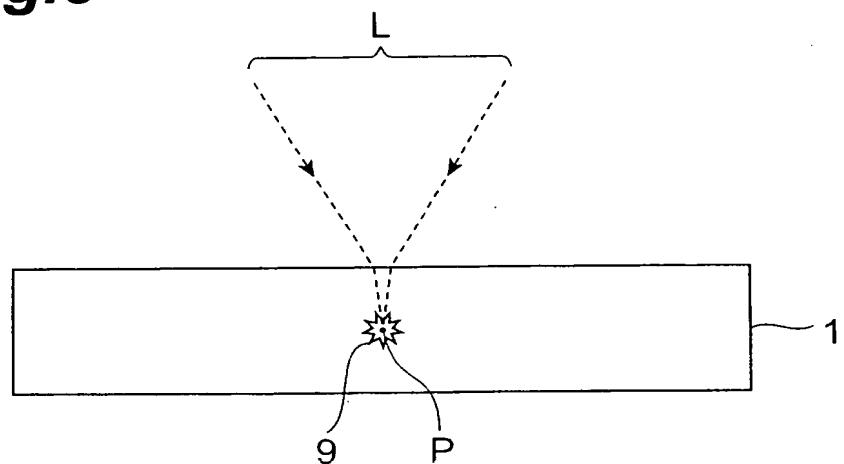


Fig.9

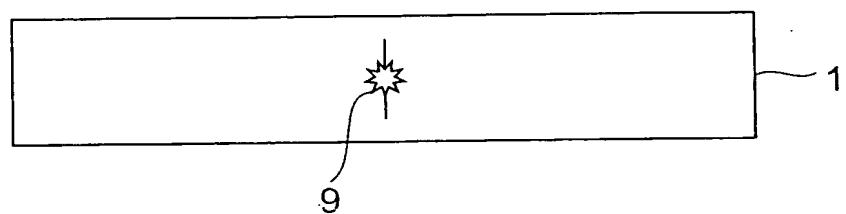


Fig.10

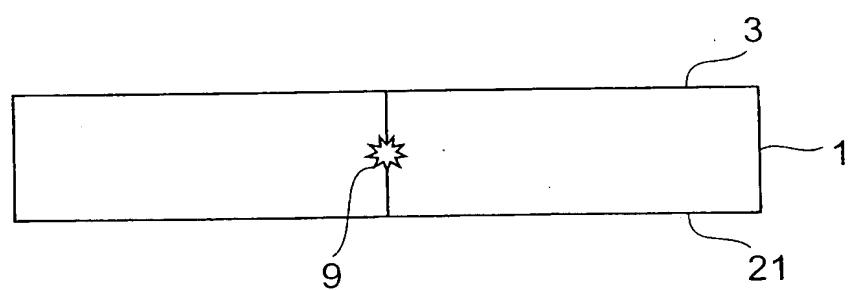
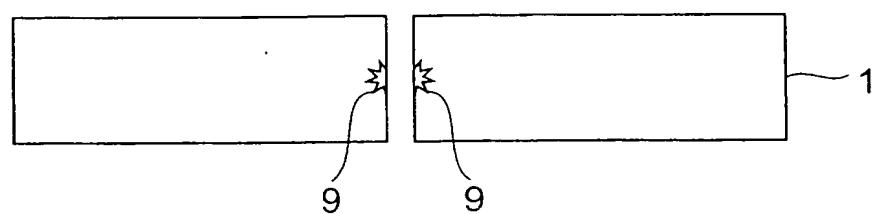


Fig. 11



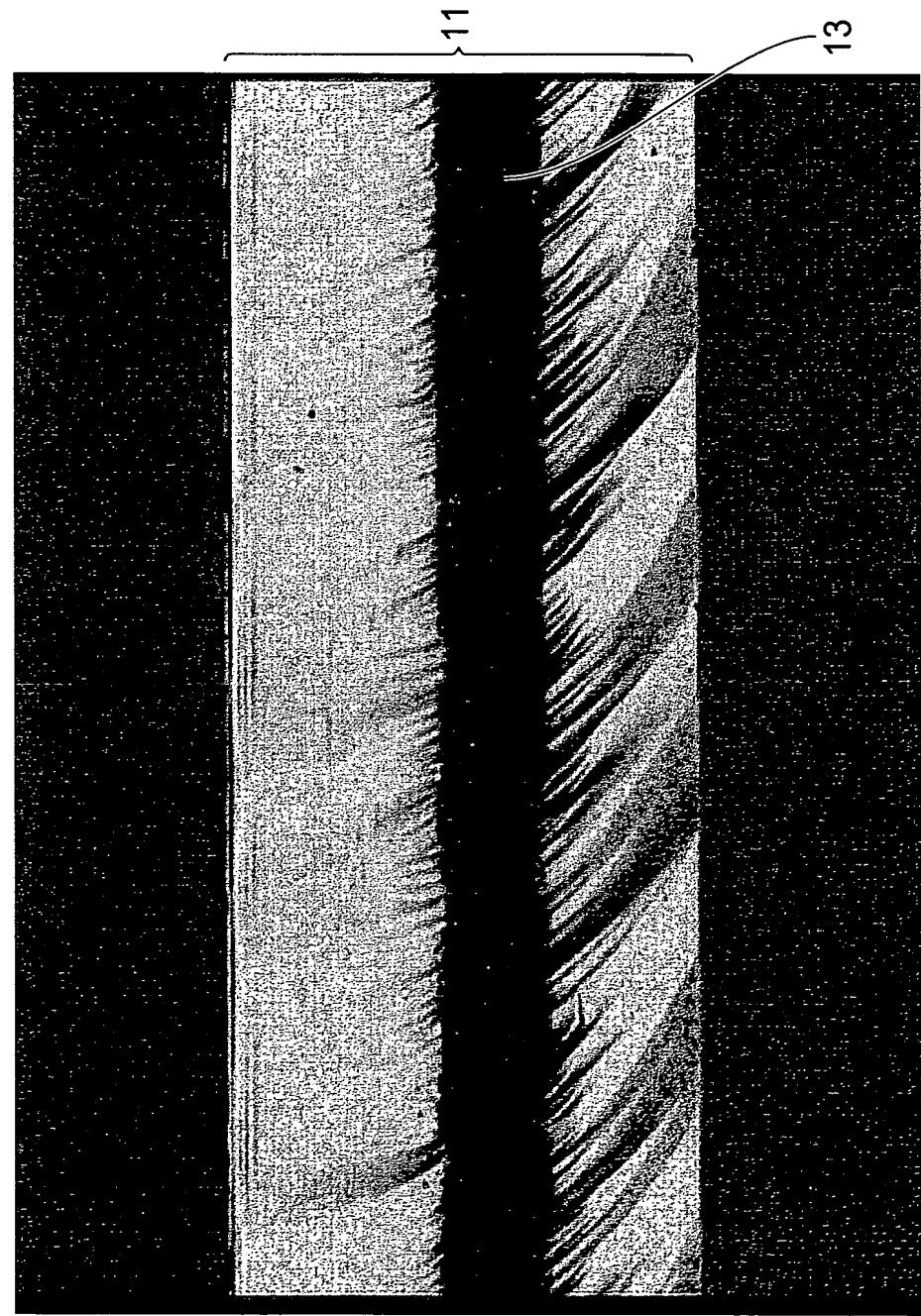


Fig. 12

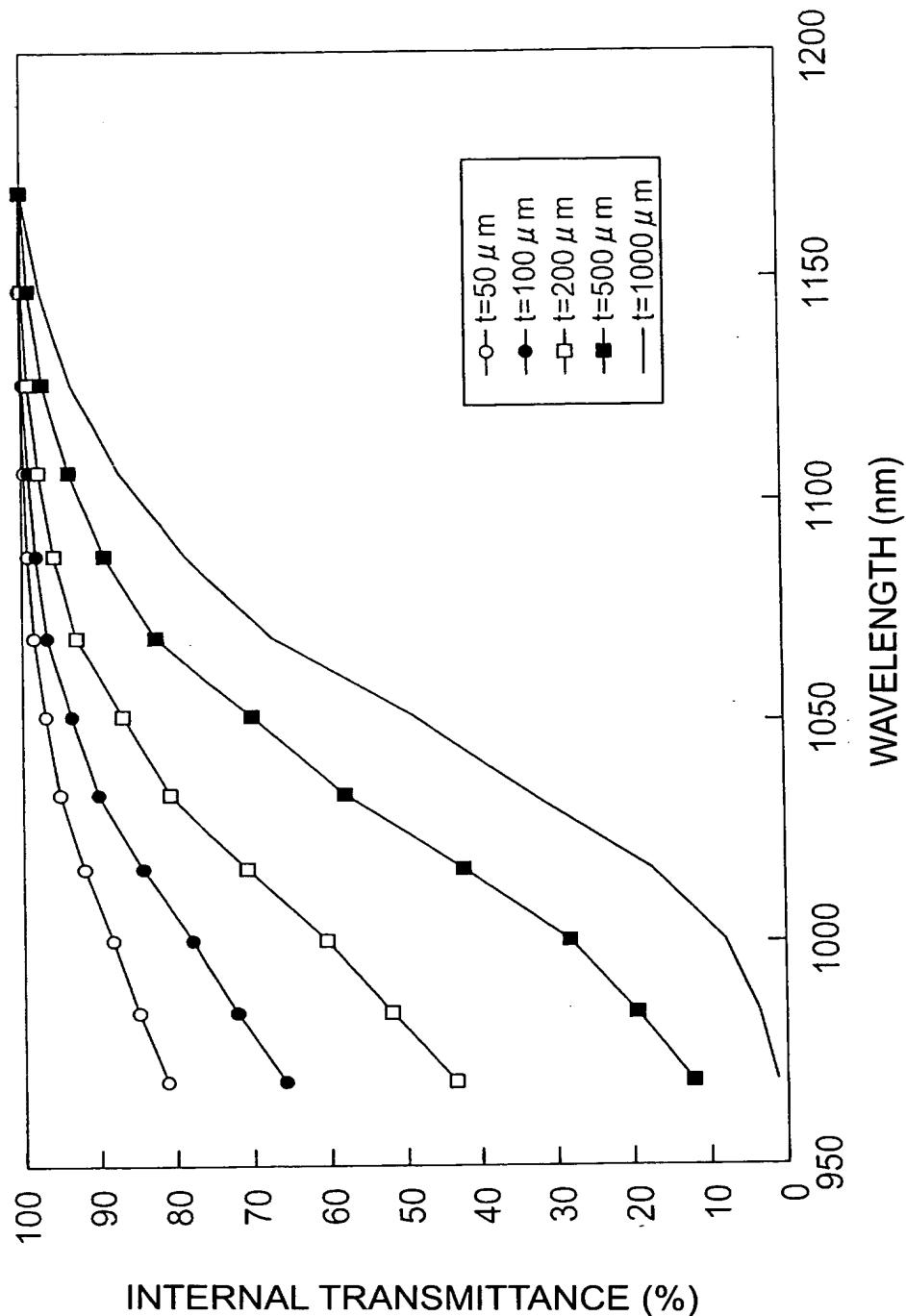
Fig.13

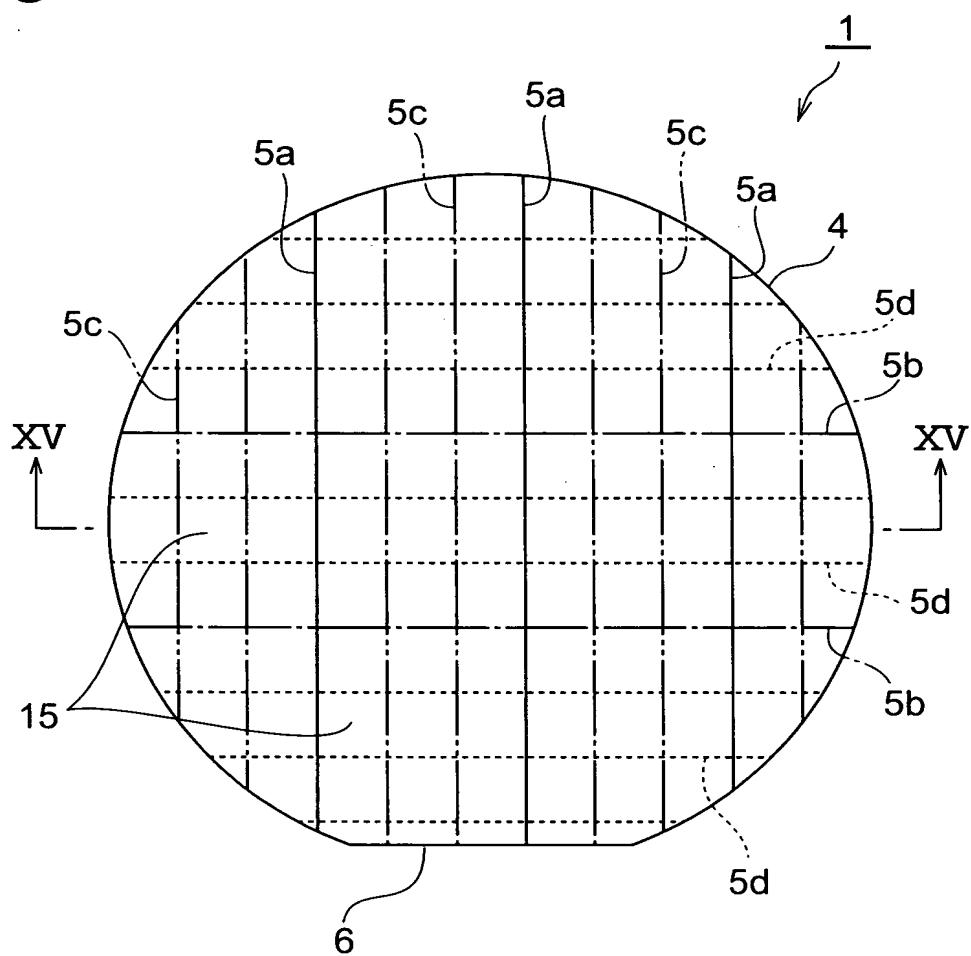
Fig. 14

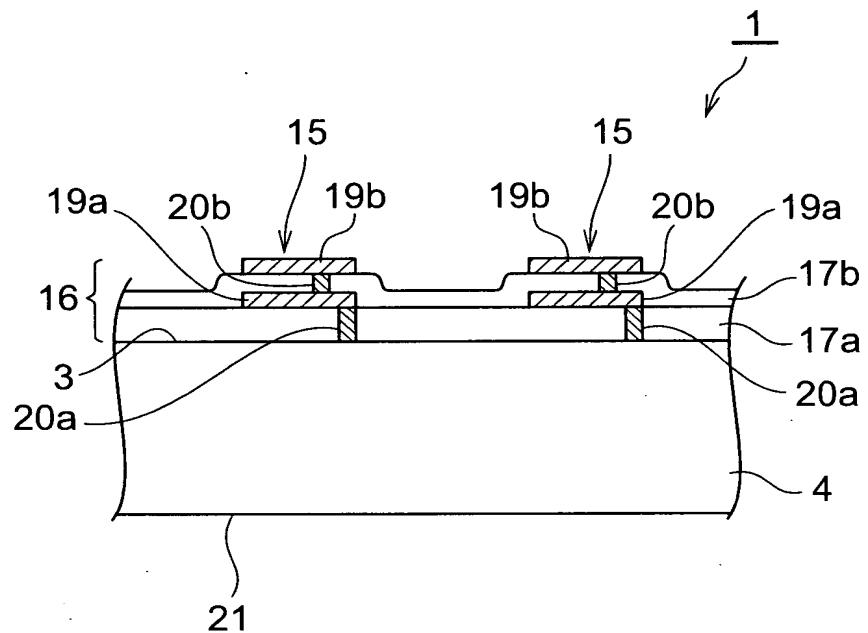
Fig.15

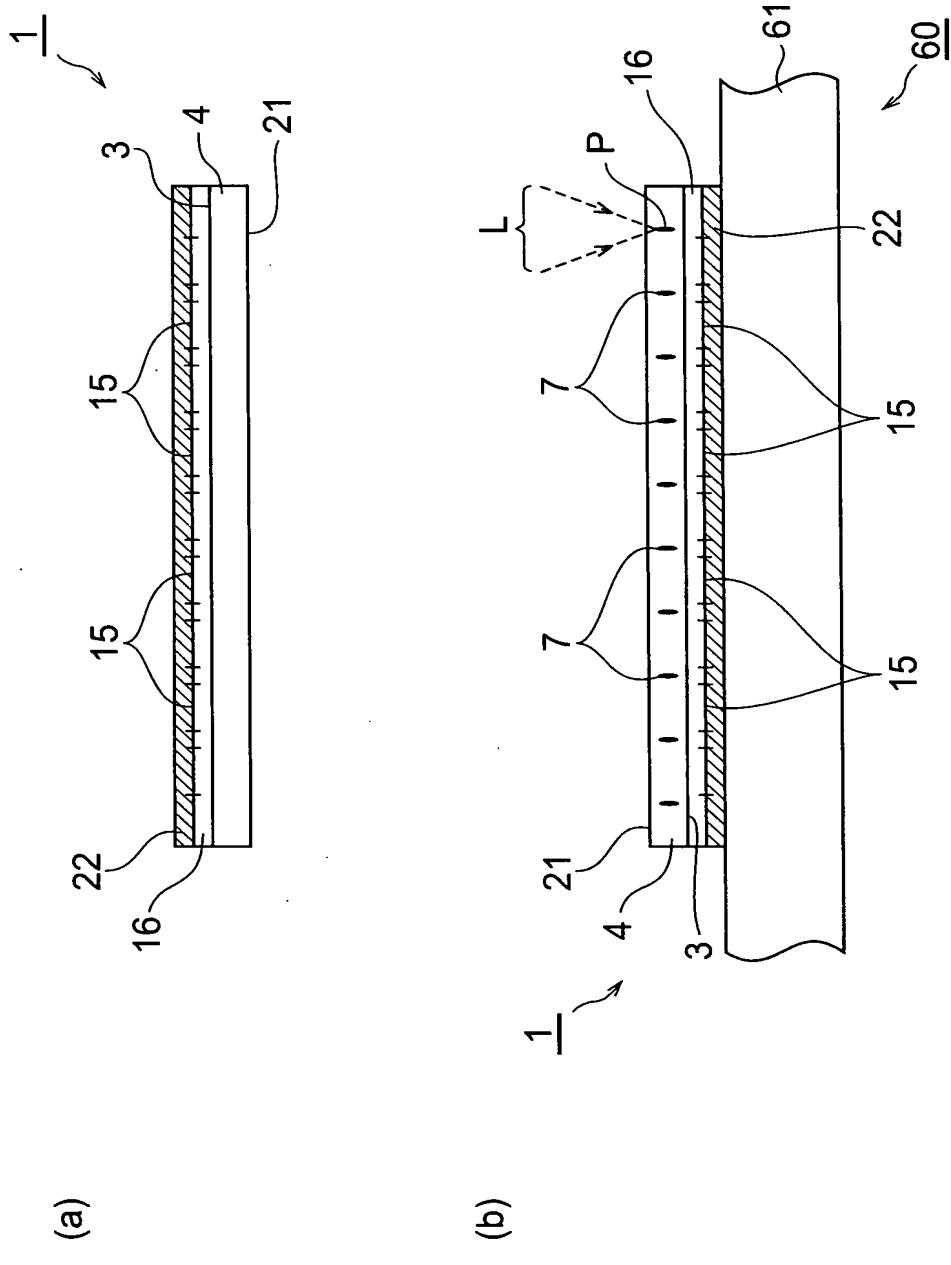
Fig. 16

Fig. 17

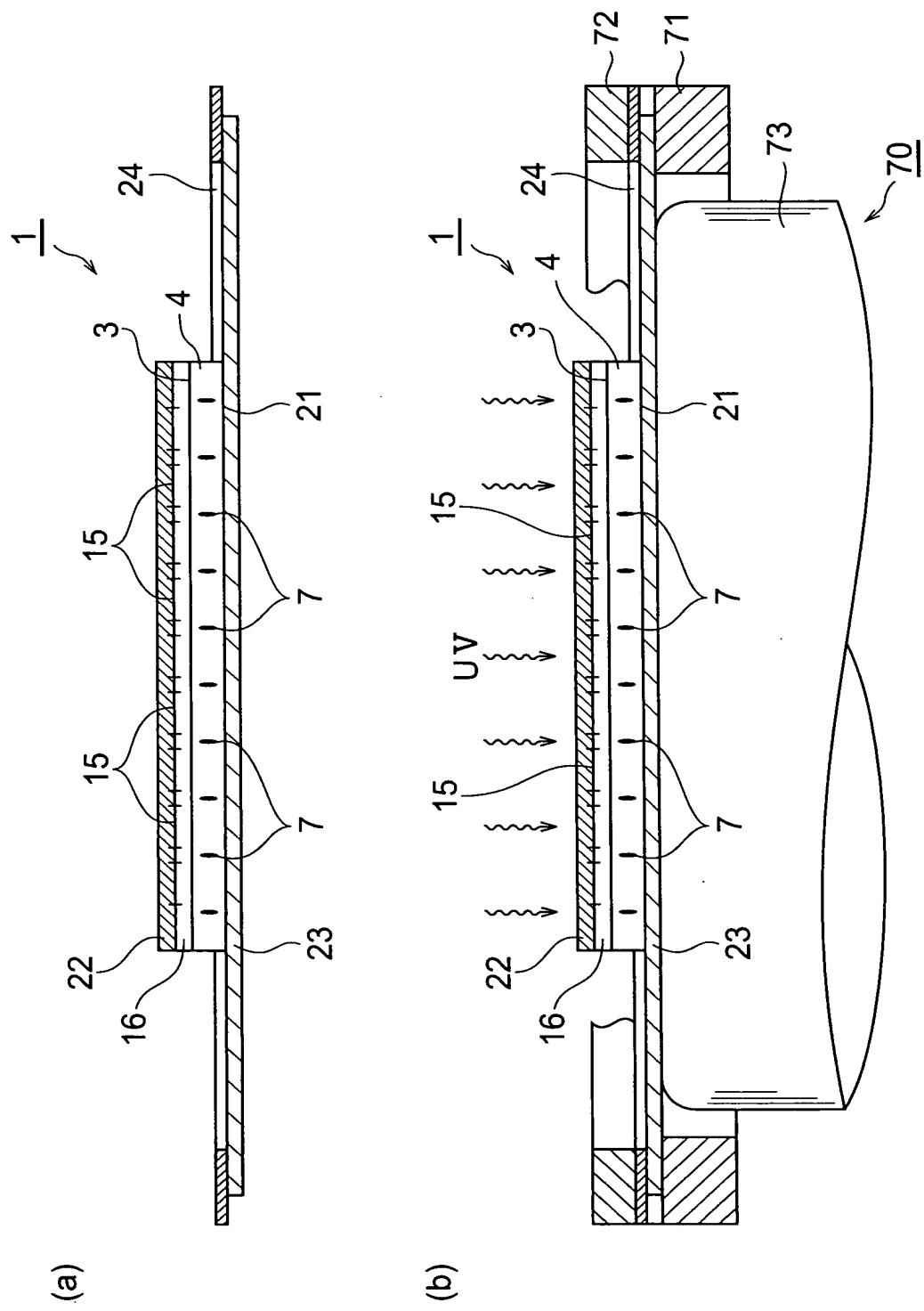
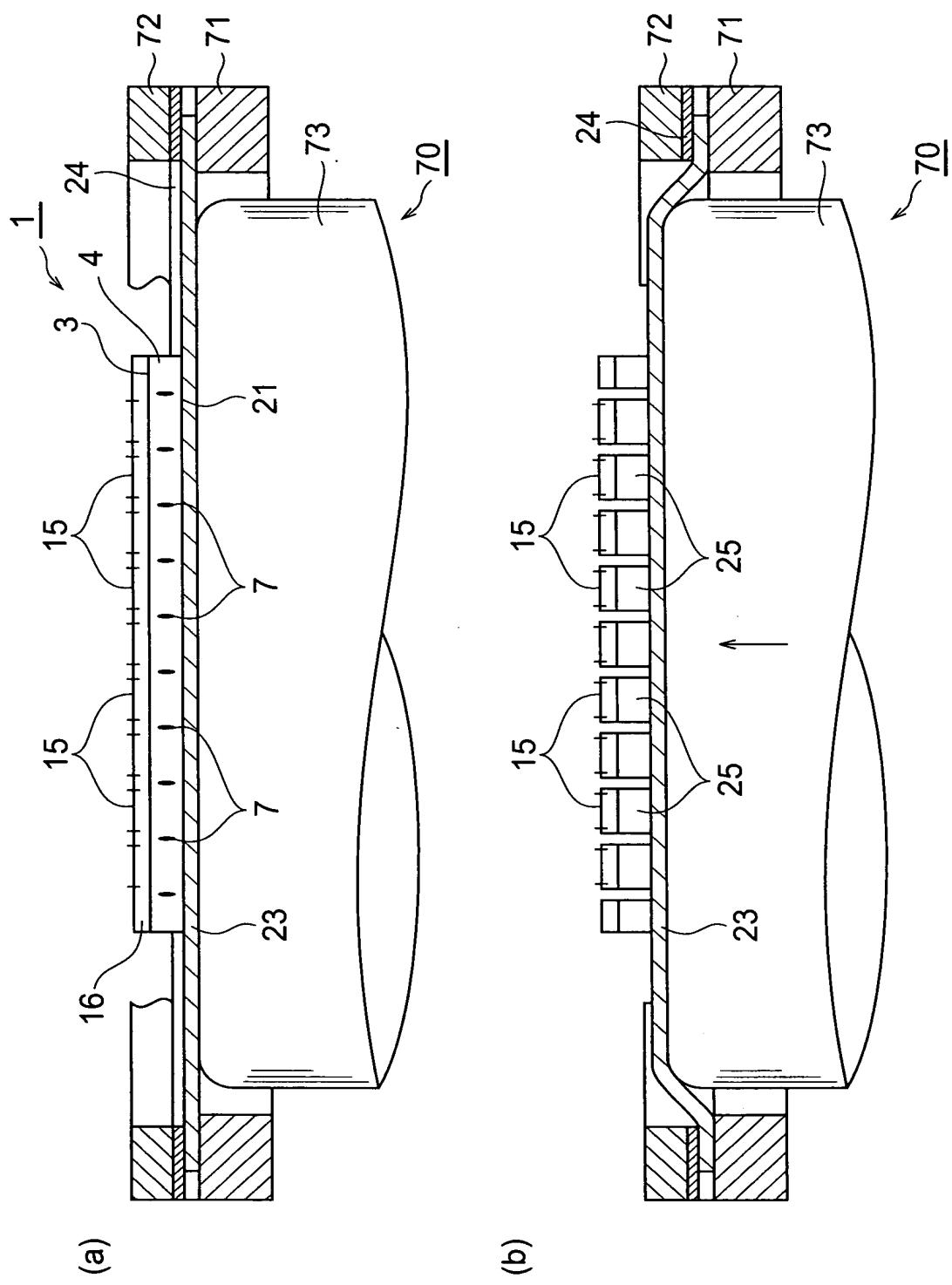


Fig. 18



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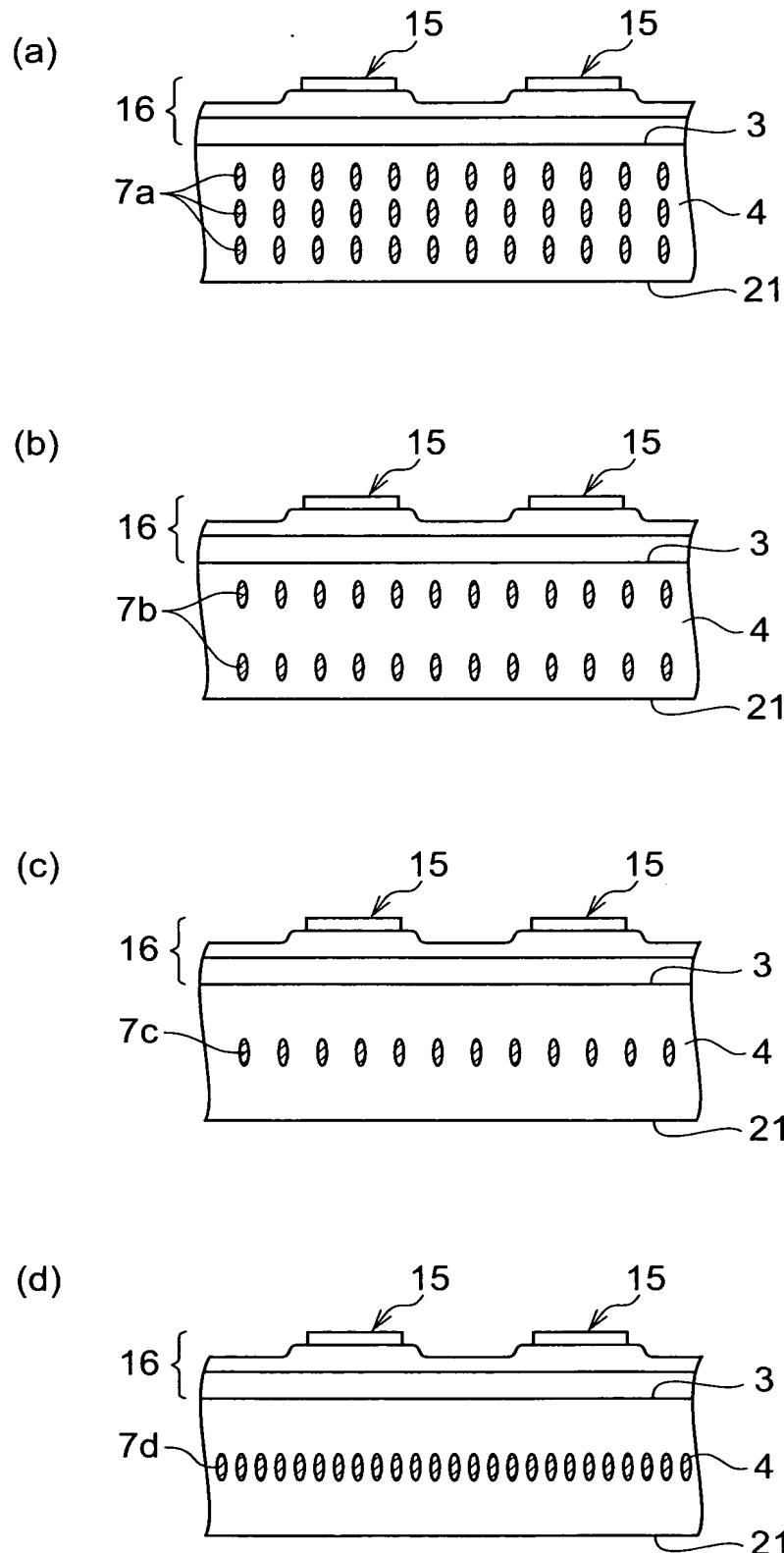
Fig.19

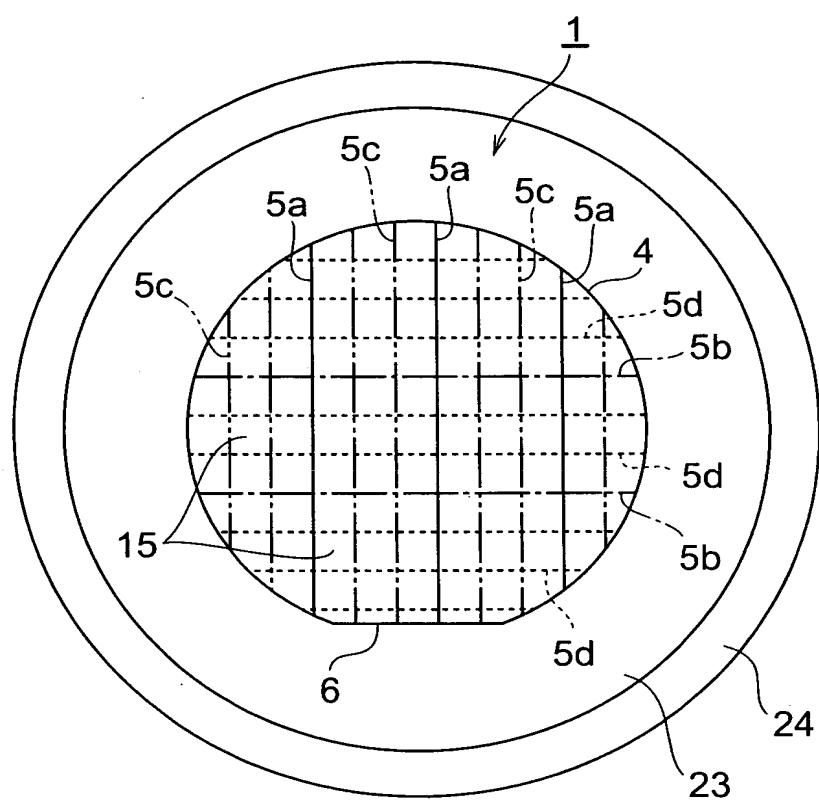
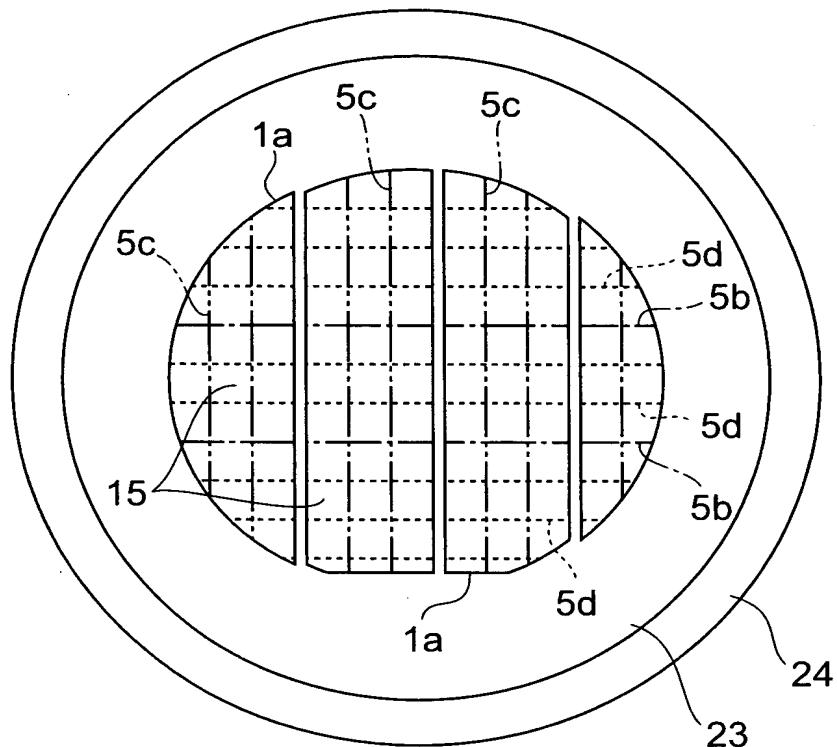
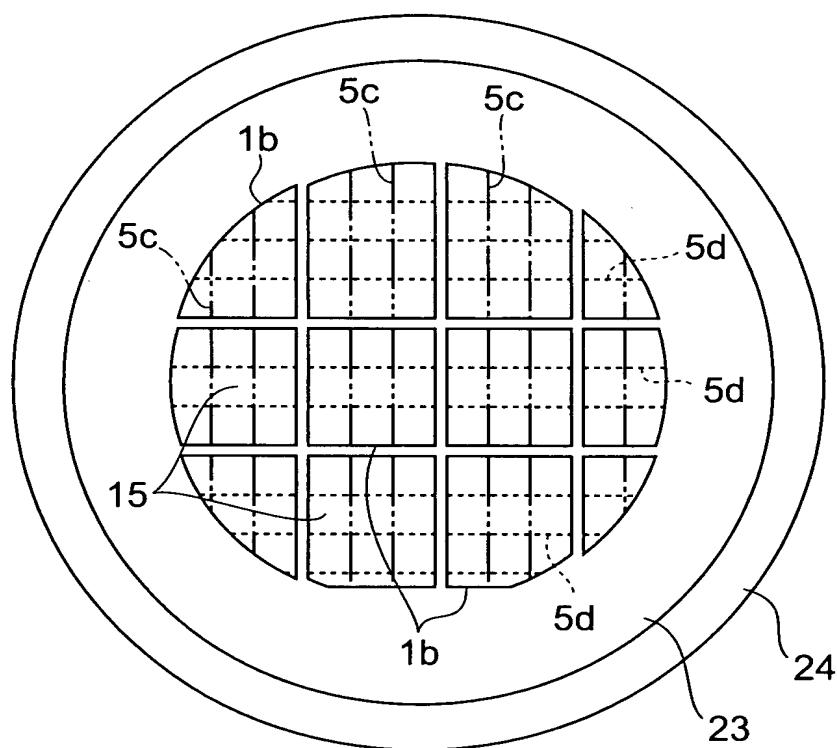
Fig.20

Fig.21

(a)



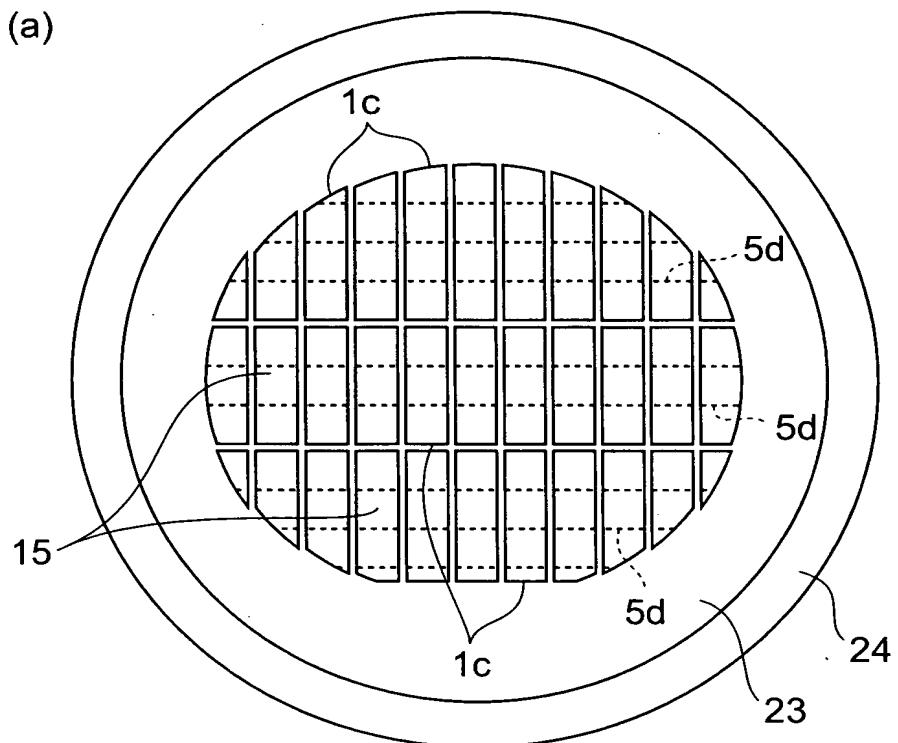
(b)



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Fig.22

(a)



(b)

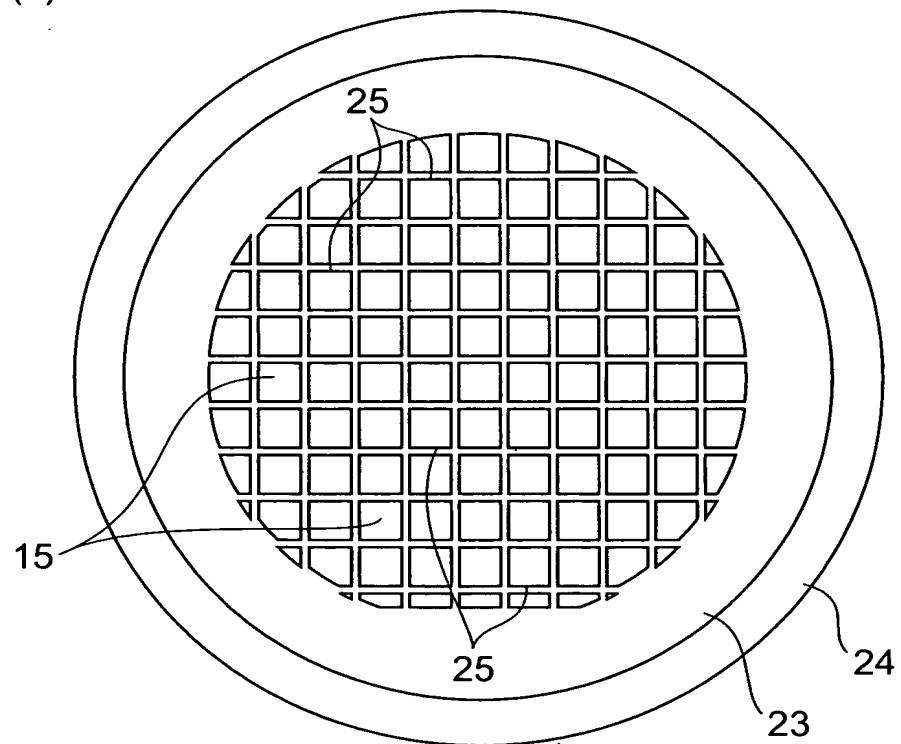
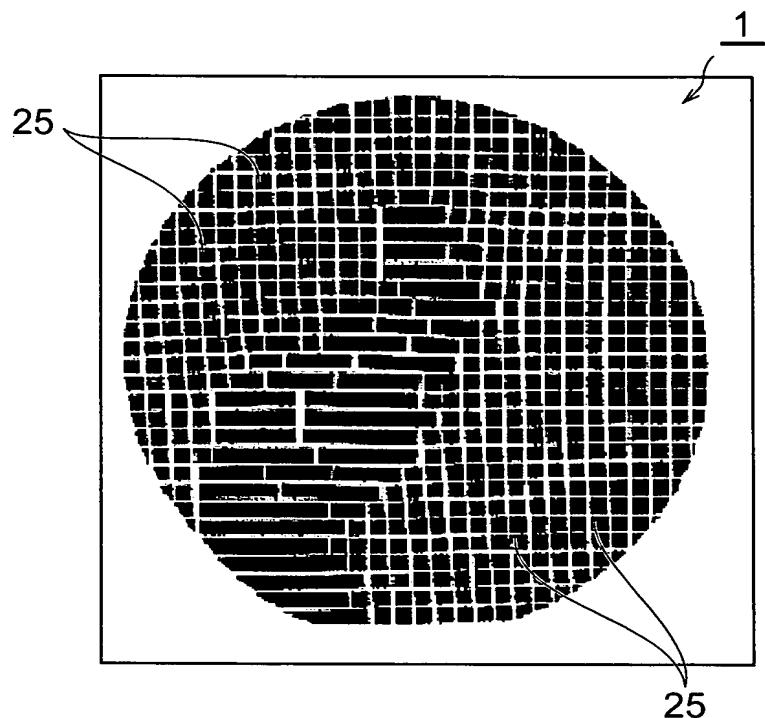


Fig.23

(a)



(b)

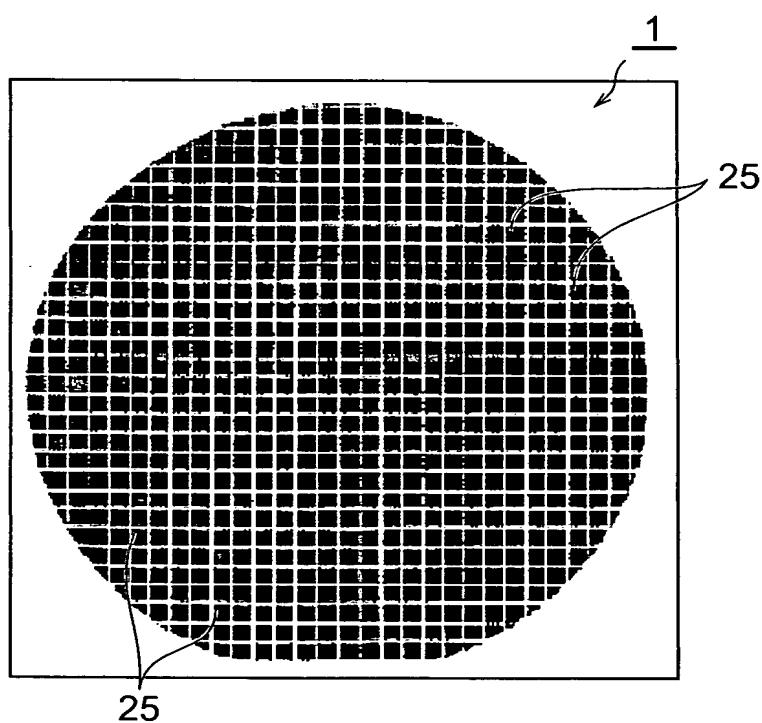
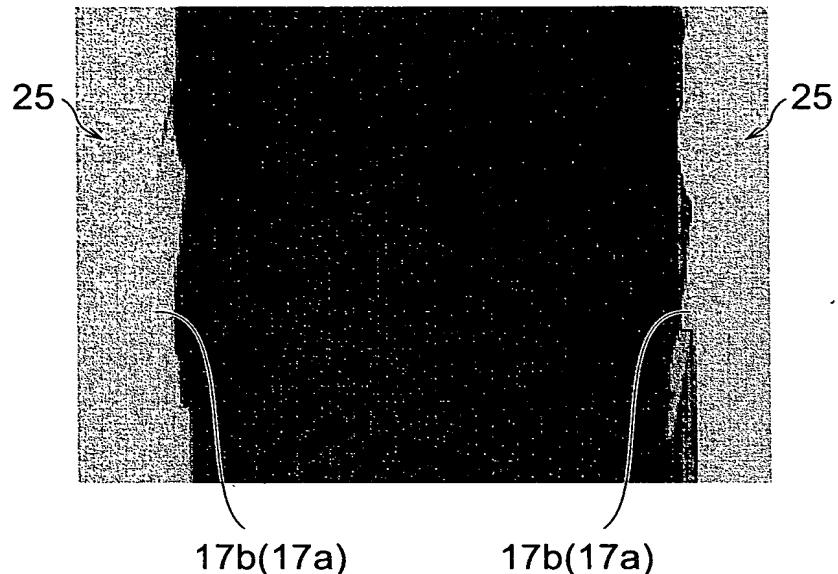


Fig.24

(a)



(b)

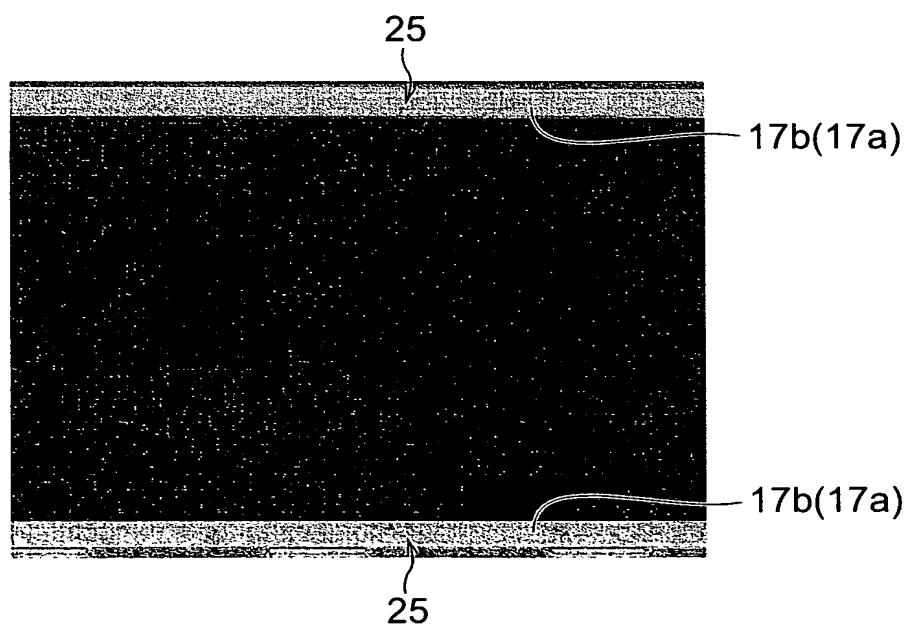


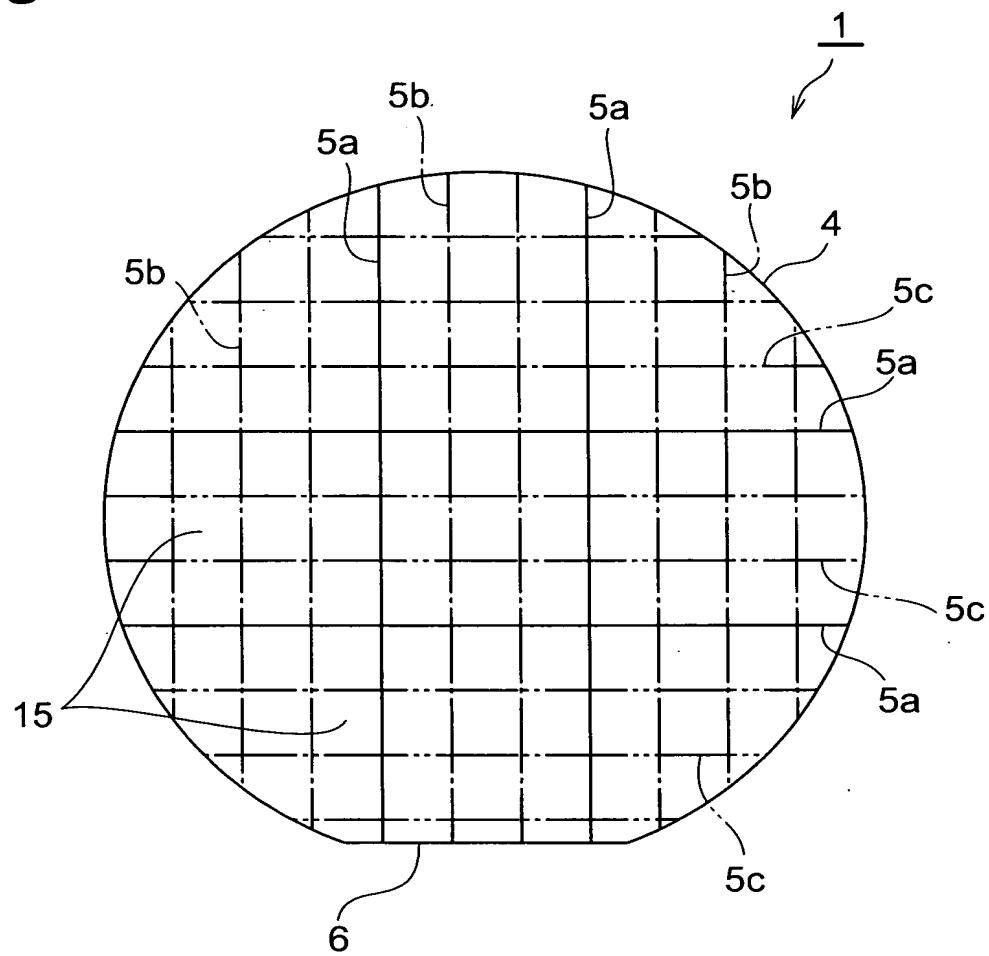
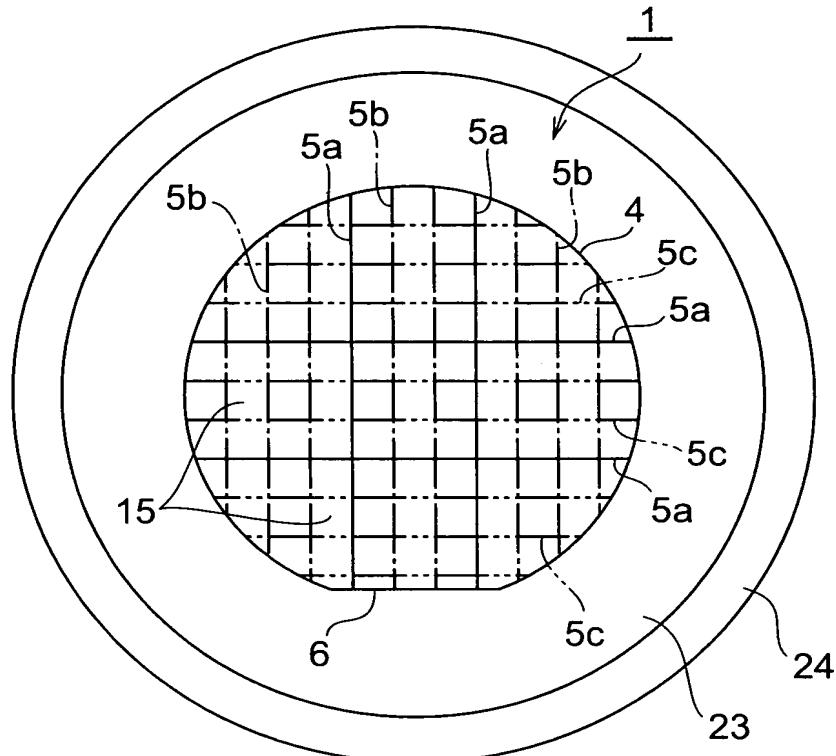
Fig.25

Fig.26

(a)



(b)

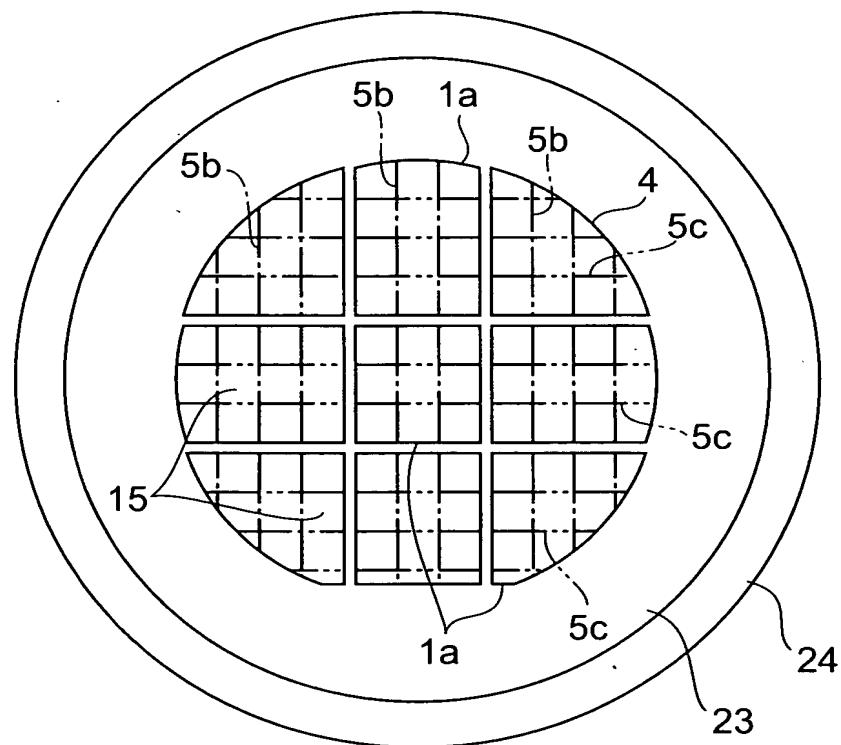
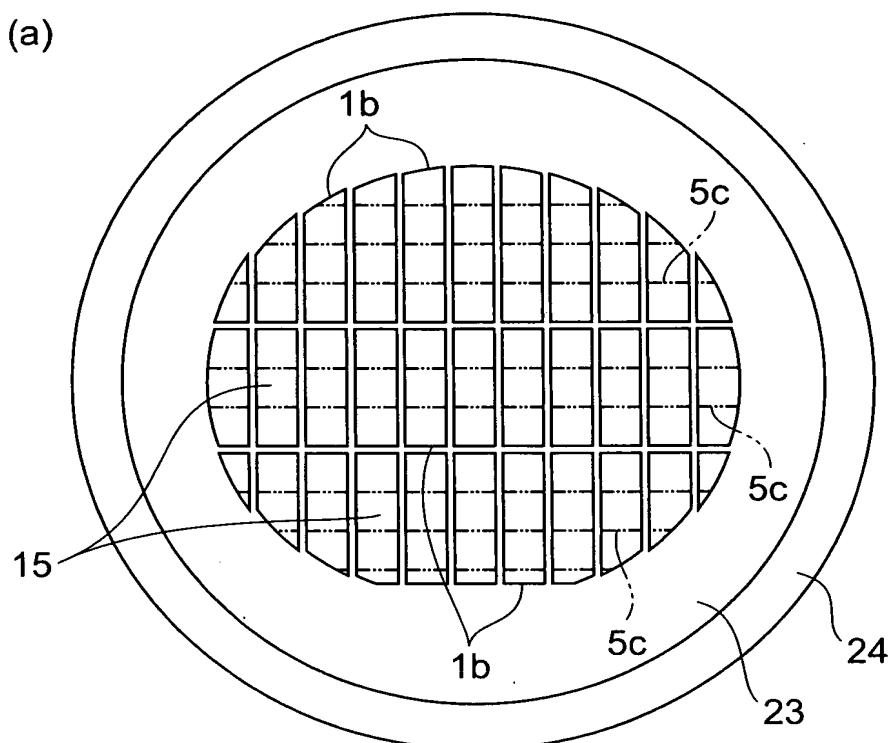


Fig.27

(a)



(b)

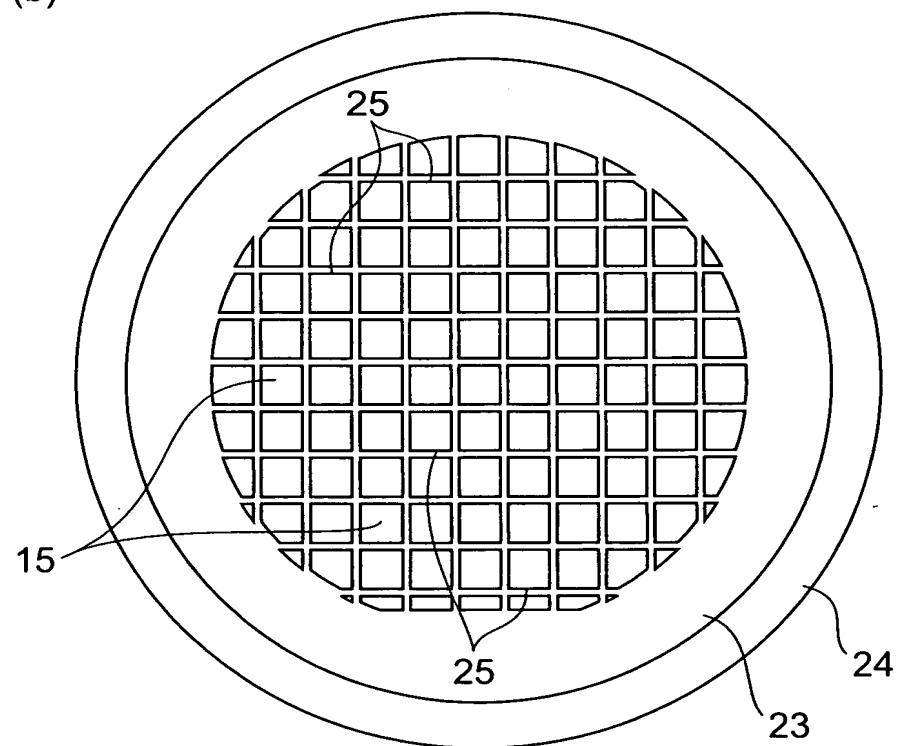


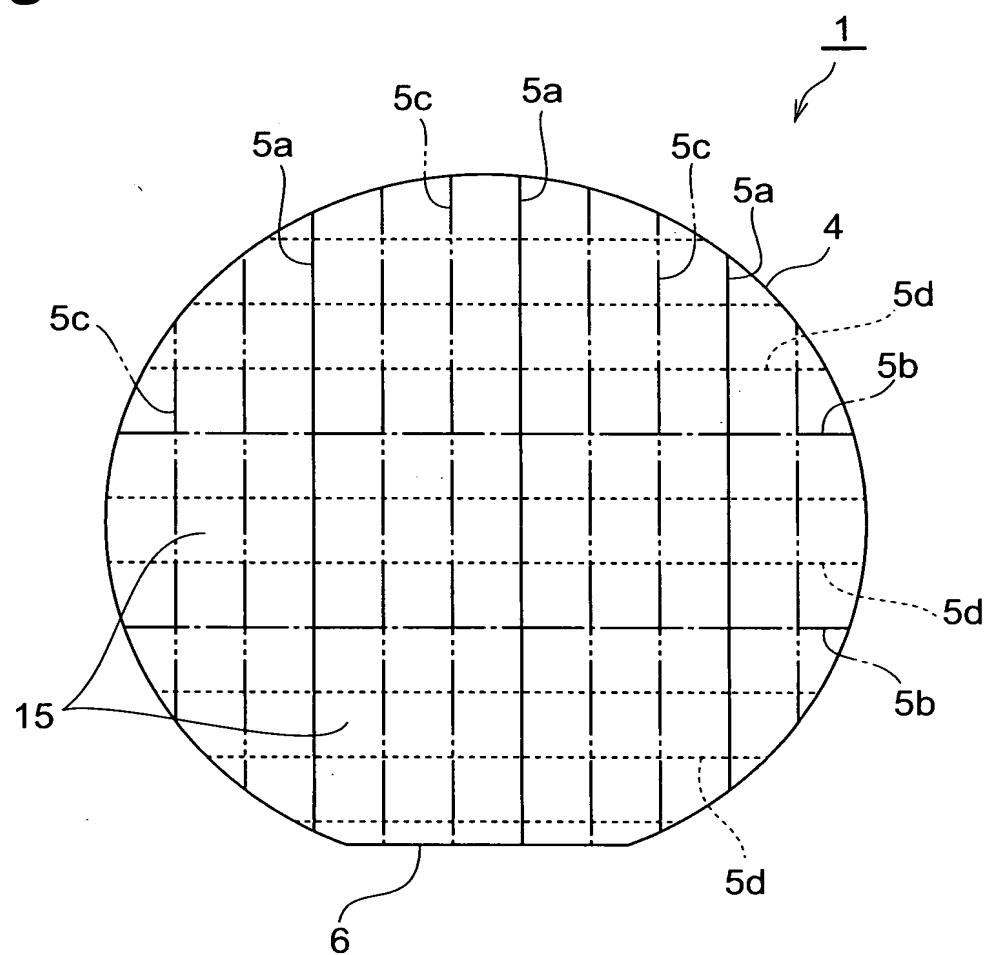
Fig.28

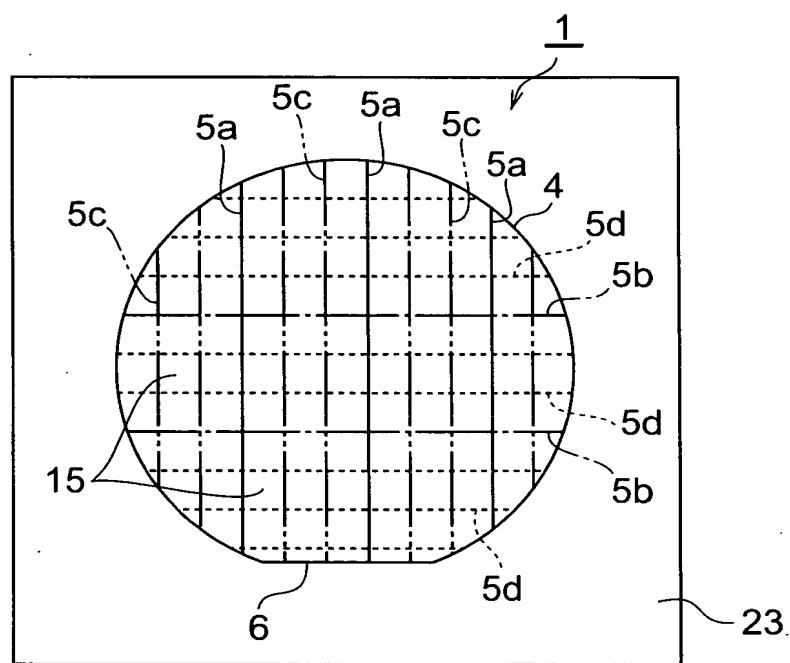
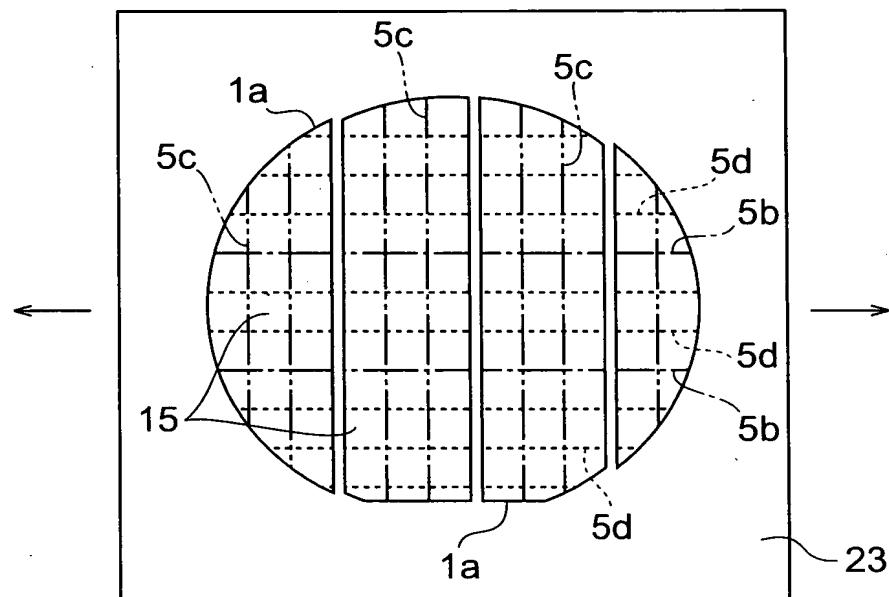
Fig.29

Fig.30

(a)



(b)

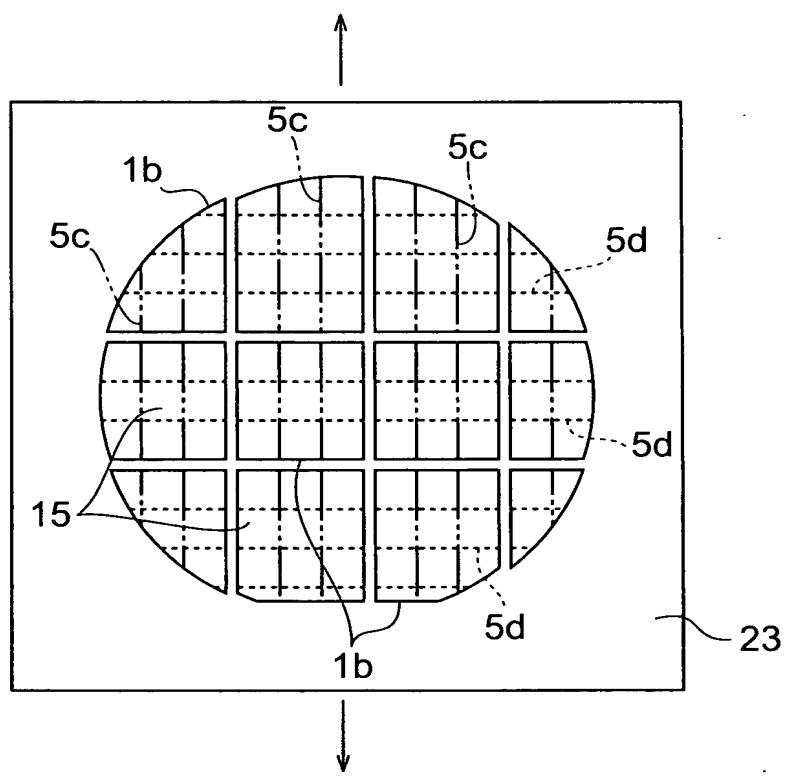
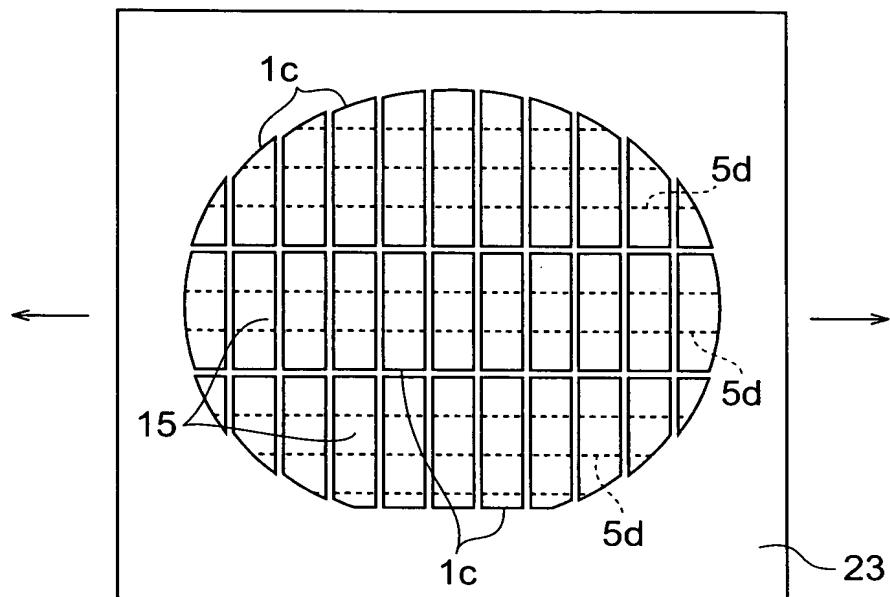


Fig.31

(a)



(b)

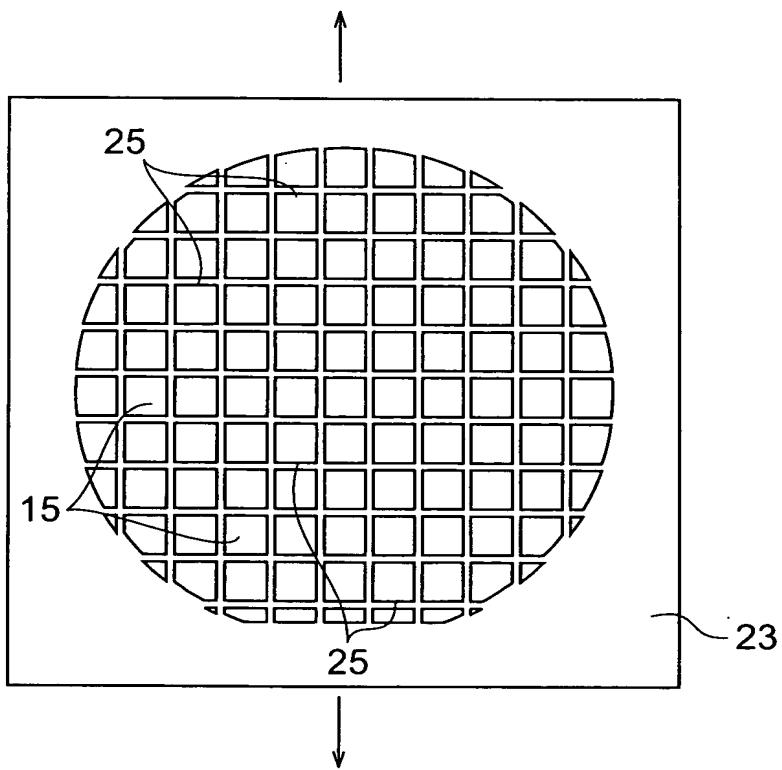


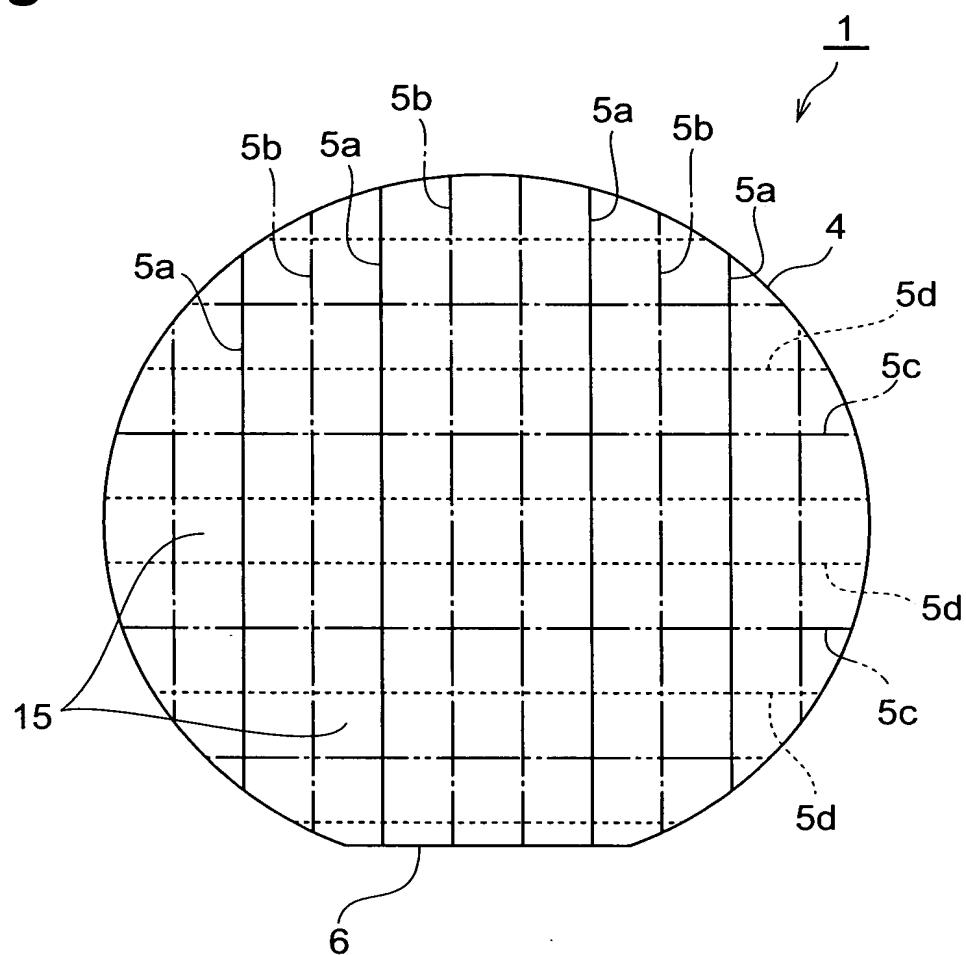
Fig.32

Fig.33

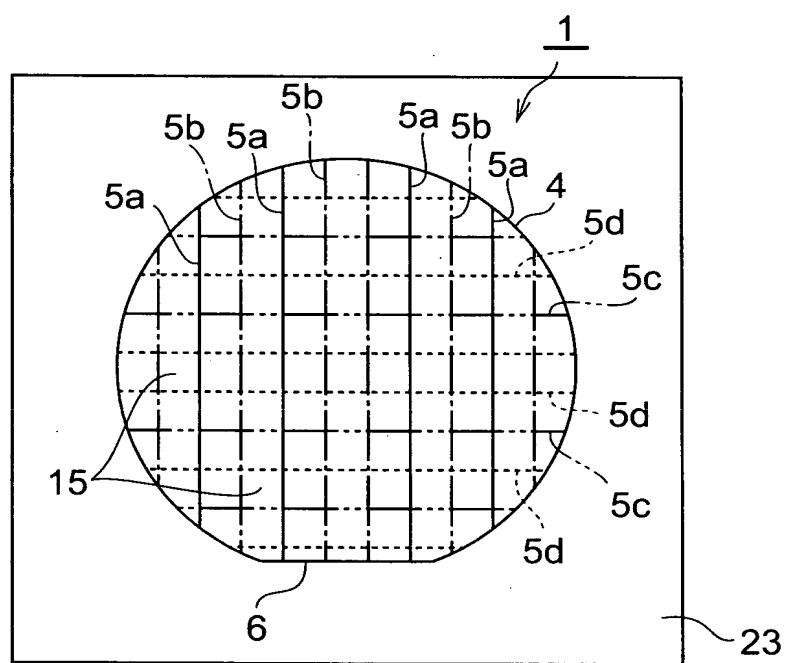
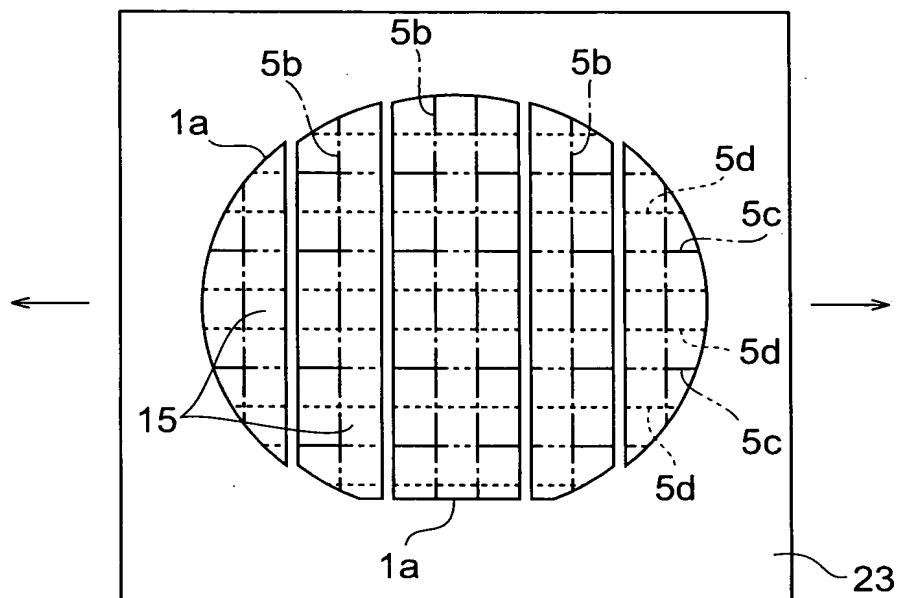


Fig.34

(a)



(b)

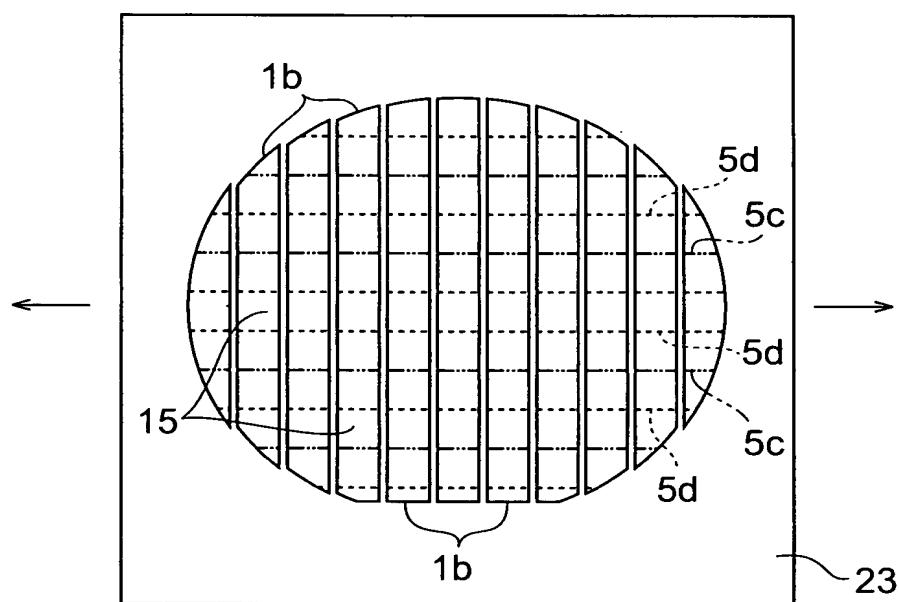
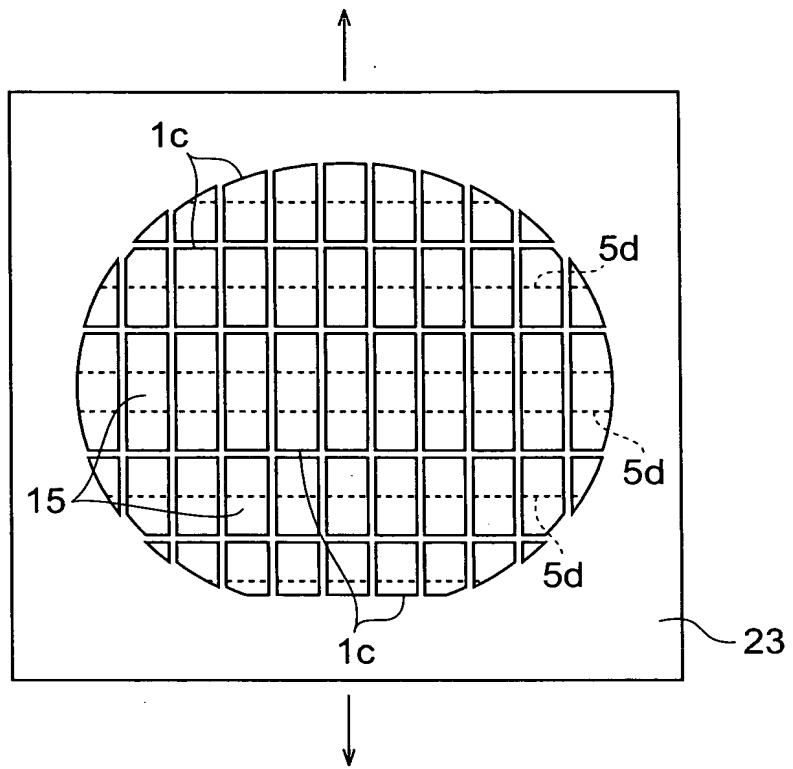


Fig.35

(a)



(b)

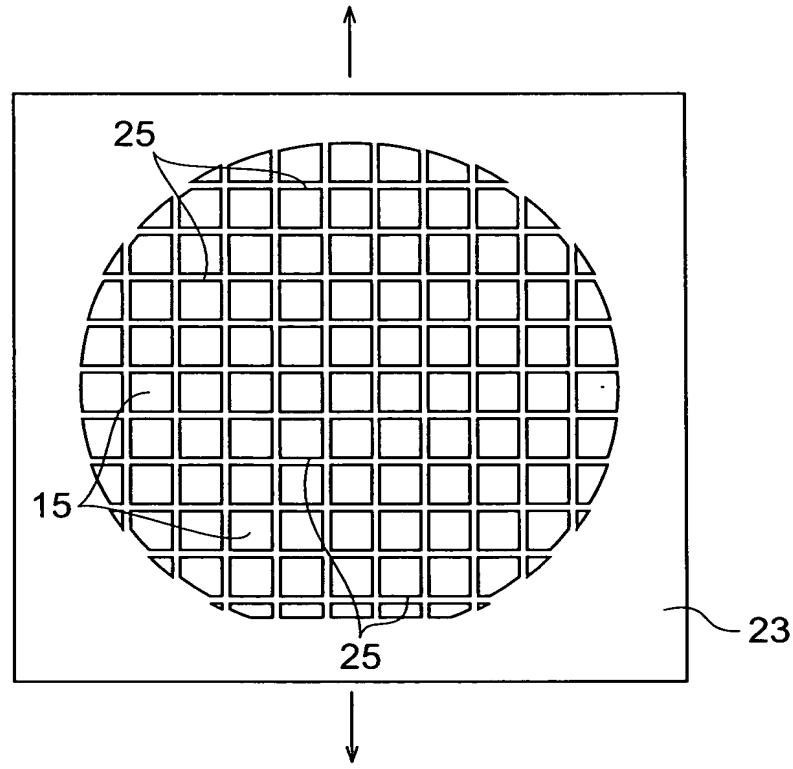


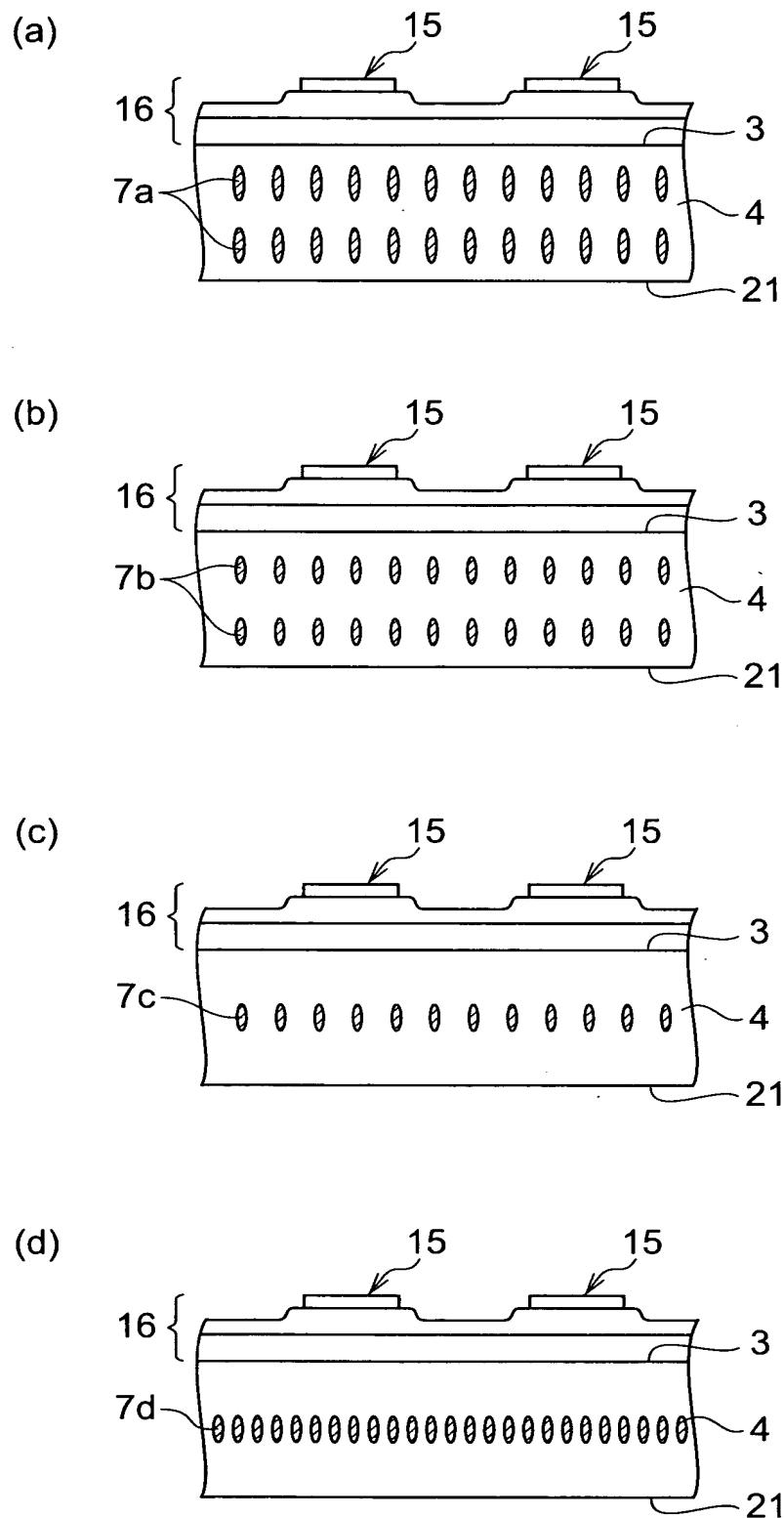
Fig.36

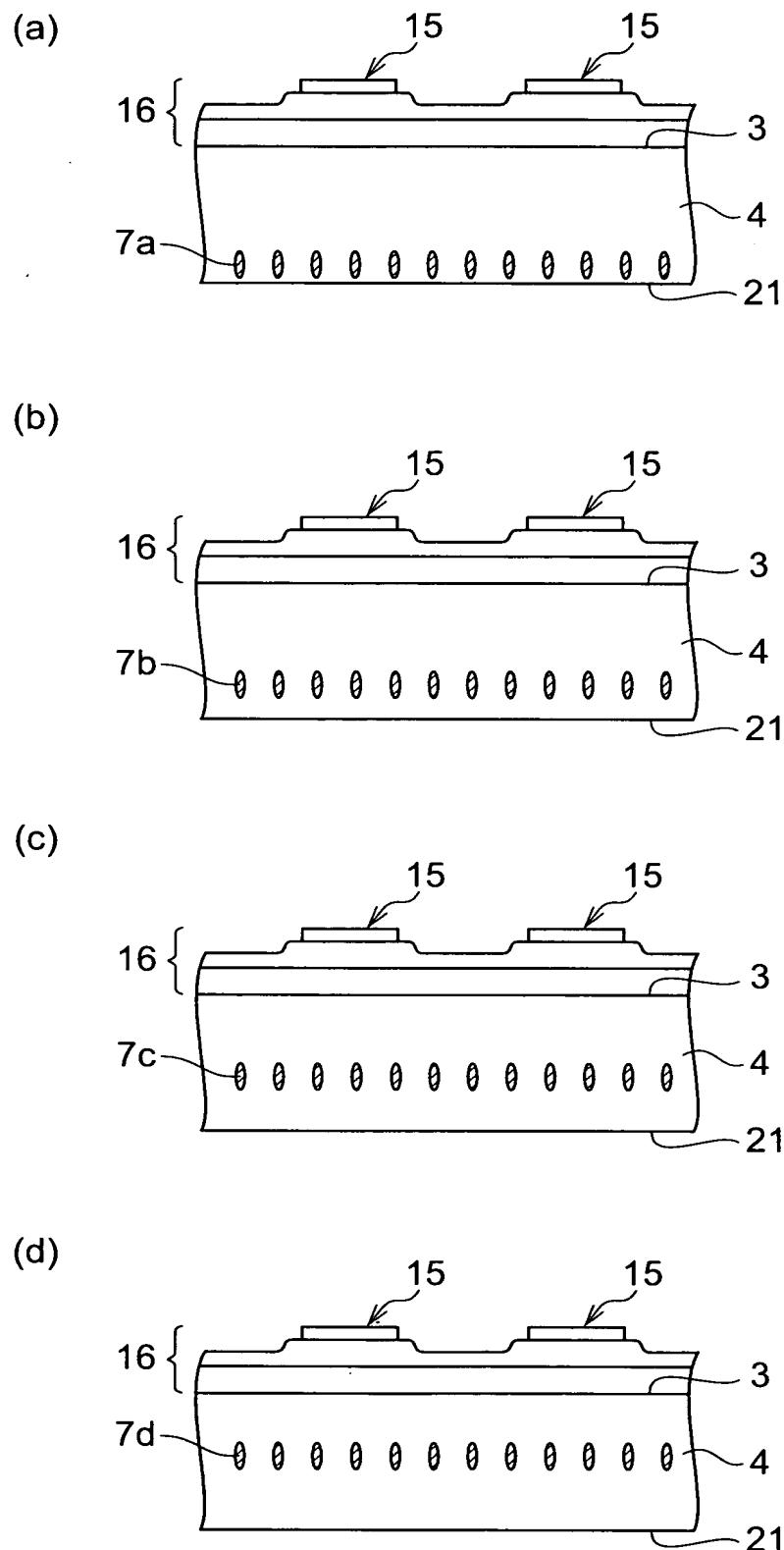
Fig.37

Fig. 38

FORMING CONDITION(1)			FORMING CONDITION(2)		
SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)	SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)
HC MODIFIED REGION	39	10	HC MODIFIED REGION	39	10
HC MODIFIED REGION	71	10	HC MODIFIED REGION	71	10
DIVIDED MODIFIED REGION	121	20	DIVIDED MODIFIED REGION	121	20
DIVIDED MODIFIED REGION	157	20	DIVIDED MODIFIED REGION	157	20
DIVIDED MODIFIED REGION	185	20	DIVIDED MODIFIED REGION	185	20
TIME DIFFERENCE MODIFIED REGION	—	—	TIME DIFFERENCE MODIFIED REGION	192	20
QUALITY MODIFIED REGION	263	15	QUALITY MODIFIED REGION	263	15
REMAINING WIDTH: 62 μm	CUT TIME: 3.70s	REMAINING WIDTH: 54 μm	CUT TIME: 2.38s		

FORMING CONDITION(3)			FORMING CONDITION(4)		
SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)	SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)
HC MODIFIED REGION	39	10	HC MODIFIED REGION	39	10
HC MODIFIED REGION	71	10	HC MODIFIED REGION	71	10
DIVIDED MODIFIED REGION	121	20	DIVIDED MODIFIED REGION	121	20
DIVIDED MODIFIED REGION	157	20	DIVIDED MODIFIED REGION	157	20
DIVIDED MODIFIED REGION	185	20	TIME DIFFERENCE MODIFIED REGION	185	20
TIME DIFFERENCE MODIFIED REGION	199	20	QUALITY MODIFIED REGION	263	15
QUALITY MODIFIED REGION	263	15	REMAINING WIDTH: 35 μm	CUT TIME: 1.90s	
REMAINING WIDTH: 43 μm	CUT TIME: 2.03s				

Fig.39

FORMING CONDITION(5)			FORMING CONDITION(6)						
SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)	SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)				
HC MODIFIED REGION	39	10	HC MODIFIED REGION	39	10				
HC MODIFIED REGION	71	10	HC MODIFIED REGION	71	10				
DIVIDED MODIFIED REGION	121	20	DIVIDED MODIFIED REGION	121	20				
DIVIDED MODIFIED REGION	157	20	DIVIDED MODIFIED REGION	157	20				
DIVIDED MODIFIED REGION	185	20	DIVIDED MODIFIED REGION	192	20				
TIME DIFFERENCE MODIFIED REGION	214	20	TIME DIFFERENCE MODIFIED REGION	228	20				
QUALITY MODIFIED REGION	263	15	QUALITY MODIFIED REGION	263	15				
REMAINING WIDTH:23 μm	CUT TIME:1.99s		REMAINING WIDTH:5~10 μm	CUT TIME:1.62s					
FORMING CONDITION(7)									
SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)							
HC MODIFIED REGION	39	10							
HC MODIFIED REGION	71	10							
DIVIDED MODIFIED REGION	121	20							
DIVIDED MODIFIED REGION	157	20							
DIVIDED MODIFIED REGION	185	20							
DIVIDED MODIFIED REGION	214	20							
DIVIDED MODIFIED REGION	235	20							
QUALITY MODIFIED REGION	263	15							
REMAINING WIDTH:0 μm	CUT TIME:0s								

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